

REMARKS

Claims 1-37 are pending in the application. Claims 1- 37 stand rejected. The claims have not been amended in this paper.

Double-Patenting Rejection of Claims 1-37

The Applicants' attorney notes the Examiner's provisional double-patenting rejection of claims 1-37 and will respond to this rejection in the appropriate manner at such time as the allegedly conflicting claims are allowed.

Rejection of Claims 1-37 Under 35 U.S.C. 102(b) As Being Anticipated By Moyne**Claim 1**

Claim 1 recites a hardware subsystem that includes at least one component adapted to carry an electrical signal associated with one from the group of a sensing operation and a control operation, an application database storing application service configuration information that corresponds to a manner of processing information associated with the electrical signal, and a self-configuring application services system comprising a configuration module coupled to the hardware subsystem and coupled to retrieve application service configuration information from the application database.

For example, referring to paragraphs 64-95 and FIGS. 5-10 of the present application, an object oriented sensing and/or control framework architecture 105 comprises an application services system 900; a signal database 405; an application database 450; a message database 480; at least one sensing/control framework and interface system 600 having a set of sensing and/or control subsystems 120 associated therewith; an Object Database Management System (ODBMS) 800; and a network or network system 110. In an embodiment, the application services system 900 comprises an object manager 910, an object cache 920, and an application services framework module 1130, each of which may reside within the application services system's memory. The object manager 910 directs or oversees the exchange of service objects 870 between the ODBMS 800 and the object cache 920, as requested by the

application services framework module 1130, and/or as necessary. . In an embodiment, the application services framework module 1130 comprises an object oriented software framework that includes a configuration and initialization module 1132. The configuration and initialization module 1132 may operate during an initialization mode to retrieve configuration information from the application database 450. Upon retrieval of configuration information from the application database 450, the configuration and initialization module 1132 may issue one or more requests to the object manager 910 to retrieve service objects 870 and/or references thereto from the OBDMS 800. The service objects 870 and/or references may subsequently reside within the object cache 920. For each service object 870 defined to be active within the application services framework module 1130, the configuration and initialization module 1132 may retrieve a set of corresponding sensor/controller message identifiers from the message database 480, and pass such sensor controller message identifiers to the service object 870 to establish a set of sensor/controller message identifiers to which the service object 870 may respond during system operation.

In contrast, Moyne fails to teach or suggest the limitations recited in claim 1. For example, Moyne, at, e.g., FIG. 2 and col. 5, line 37 to col. 6, line 15, teaches a generic cell controller 20 that receives messages containing data. A main program module 21 (which the Examiner regards as a configuration module) of the controller 20 receives this data and matches the data to an entry in a database 22 (which the Examiner regards as an application database). Through relations implied by the database 22, the main program module 21 determines a unique action to be invoked as a result of a received message. In order to invoke an action, the main program module 21 first scans the database 22 to determine necessary routines to call, parameters to pass to the routines and the order in which to call the routines. The main program module 21 then serially calls selected ones of routines 23a-23f, in the specified order and with the specified parameters. The main program module 21 and the database 22 produce a generic sequence of steps to be performed by a selected tool in order to implement a selected manufacturing operation. However, Moyne fails in any manner to teach or suggest that the database stores configuration information or is otherwise used for

configuration purposes. Moreover, Moyne fails in any manner to teach or suggest any self-configuring capabilities of the program module 21.

Claim 12

Claim 12 is patentable for reasons similar to those discussed above in support of the patentability of claim 1.

Claims 2-11 and 13-22

Claims 2-11 and 13-22 are patentable by virtue of their respective dependencies from claims 1 and 12.

Claim 23

Claim 23 recites retrieving application service configuration information that references a software object that includes program instructions directed toward processing an electrical signal, retrieving a software object in accordance with the application service configuration information, retrieving interface configuration information corresponding to a hardware subsystem, and automatically generating a hardware interface for managing communication between the software object and the hardware subsystem in accordance with the interface configuration information.

In contrast, Moyne fails to teach or suggest the limitations recited in claim 23. Specifically, Moyne fails to teach or suggest retrieving application service configuration information separate from a retrieved software object and automatically generating a hardware interface separate from the software object.

Claim 29

Claim 29 is patentable for reasons similar to those discussed above in support of the patentability of claim 23.

Claims 24-28 and 30-37

Claims 24-28 and 30-37 are patentable by virtue of their respective dependencies from claims 23 and 29.

CONCLUSION

In view of the foregoing, all claims are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

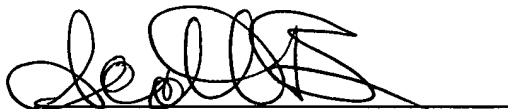
If the Examiner believes that a telephone conference would expedite prosecution of this application, please telephone the undersigned at 425.455.5575. **If the Examiner does not agree that all claims are in condition for allowance, the Examiner is respectfully requested to telephone the undersigned prior to issuing an action rejecting the claims.**

In the event additional fees are due as a result of this amendment, you are hereby authorized to charge such payment to Deposit Account No. 07-1897.

Respectfully submitted,

Dated: _____

9/14/05



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